

SiC Fiber Market by Phase (Crystalline and Amorphous) and Application (Aerospace & Defense, Energy & Power, Industrial, and Others): Global Opportunity Analysis and Industry Forecast, 2021–2028

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Abstracts

The global SiC fiber market forecast was valued at \$0.38 billion in 2020, and is projected to reach \$1.47 billion by 2028, growing at a CAGR of 18.6% from 2021 to 2028.

SiC (silicon carbide) fibers are mainly composed of silicon carbide molecules and they pose properties such as high stiffness, tensile strength, high chemical resistance, and low thermal expansion. These fibers are strong and oxidation resistant that are majorly used in high temperature applications. SiC fibers are manufactured by three major process such as Yajima process, chemical vapor deposition (CVD), and laser driven chemical vapor deposition (LCVD). Several research and developments are carried out to widen the application area of these fibers. For instance, SiC fiber tows is a recent development in the market that are manufactured using rapid processing method. These tows can be used in the previously impossible applications with significant reduction of cost.

The growth of the global SiC fiber market is driven by increase in demand for silicon carbide fiber in the aerospace sector. SiC fiber possess excellent significant characteristics such as high heat resistance, chemical stability, high modulus, lightweight, durability, and others. These characteristics make them suitable to be used in the aerospace industry for a wide range of applications such as insulation for heat engines, nanotubes in turbines, ceramic matrix composites (CMC), and alternative to metallic alloys. In addition, silicon carbide (SiC) fiber manufacturers provide fibers either

in woven or fabric form to a wide variety of industries such as metallurgy, chemical, renewable energy, and others. These industries use the ceramic matrix composite (CMC)-based SiC fibers to provide thermal support to the equipment. These factors drive the growth of the global SiC fiber market.

However, the wake of the COVID-19 pandemic has disrupted the entire demand & supply chain of various sectors. More than 100 countries have locked their international borders for transportation and non-essential trade activities. The manufacturing industries are also operating at half capacity during this pandemic situation owing to the risk of infection among the workforce. Furthermore, the liquidity crunch and financial crisis have decreased the demand for silicon carbide (SiC) fibers. In addition, the lockdowns have been imposed in the countries where aerospace & defense sectors are contributing a major share to the growth of the economy such as the U.S., France, China, India, Germany, and others which in turn has resulted in reduced demand for SiC fibers.

On the contrary, the rise in demand for silicon carbide (SiC) fibers has grabbed the attention of both manufacturers and investors toward SiC fibers market. Also, the increase in attention has surged the research & development-related activities for making SiC fiber effective in high-temperature environments. For instance, a team of researchers at NASA has patented a non-oxide silicon carbide fiber named Sylramic-iBN that is capable to bear temperatures up to 3200C. This factor is anticipated to offer remunerative opportunities for the expansion of the global market.

The SiC fiber market is segmented into phase, application, and region. Depending on phase, the market is segregated into crystalline and amorphous. By application, it is divided into aerospace & defense, energy & power, industrial, and others. On the basis of region, the SiC fiber market is studied across North America, Europe, Asia-Pacific, and LAMEA.

The global SiC fiber market profiles the leading players that include American Elements, BJS Ceramics GmbH, Free Form Fibers LLC, GE Aviation, Haydale Technologies Inc., NGS Advanced Fibers Co., Ltd., Nippon Carbon Co., Ltd., Saint Gobain, SGL Carbon SE, and UBE Industries Ltd. The global SiC fiber market report provides in-depth competitive analysis as well as profiles of these major players.

1.1. Key benefits for stakeholders

Porter's five forces analysis helps analyze the potential of

buyers & suppliers and the competitive scenario of the industry for strategy building.

It outlines the current trends and future estimations of the market from 2020 to 2028 to understand the prevailing opportunities and potential investment pockets.

The major countries in the region have been mapped according to their individual revenue contribution to the regional market.

The key drivers, restraints, and opportunities and their detailed impact analysis are explained in the study.

The profiles of key players and their key strategic developments are enlisted in the report.

1.2. Key market segments

By Phase

Crystalline

Amorphous

By Application

Aerospace & Defense

Energy & Power

Industrial

Others

By Region

North America

U.S.

Canada

Mexico

Europe

Germany

UK

France

Italy

Spain

Rest of Europe

Asia-Pacific

China

Japan

India

South Korea

Australia

Rest of Asia-Pacific

LAMEA

Brazil

Saudi Arabia

South Africa

Rest of LAMEA

Key players in the global SiC fiber market are:

1. American Elements
2. BJS Ceramics GmbH
3. Free Form Fibers LLC
4. GE Aviation
5. Haydale Technologies Inc.
6. NGS Advanced Fibers Co., Ltd
7. Nippon Carbon Co., Ltd.
8. Saint Gobain
9. SGL Carbon SE
10. UBE Industries Ltd

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